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ARE WE DOING MORE DAMAGE TO AN ALREADY FRAGILE ENVIRONMENT -- MORE QUICKLY THAN RESEARCHERS CAN STUDY, LET ALONE POLICY-MAKERS REVERSE?

The effects of non-ionizing electromagnetic fields on our natural environment is not being adequately researched. Some species are "convenient" for laboratory testing and, of course, there are clusters and epidemiological studies in humans. Many species are not studied. Those effects which have been noted have not led to appropriate policy shifts per the "precautionary principle." Individual plants and animals, vulnerable species, ecosystems and hotspots are becoming "collateral damage" as the density of artificial frequencies and fields increases.

Biodiversity is already under threat from a number of interacting factors; EMF is just one more. The deleterious effects of the combination of threats appears to be cumulative and increasing. Whereas life evolved in very specific windows of frequencies of non-ionizing (and ionizing) electromagnetic fields over millennia, this current onslaught of technologically-produced frequencies has radically changed the energy environment in which nature must attempt to survive.

This map offers links to some presentations on some of the known and suspected effects, as well as studies, related maps (with links) and several books. Because of the serious species extinctions occurring at present, we will probably never know what is really happening to our ecosystems and biodiversity. This map does not emphasize effects on humans, which are presented elsewhere.

A FEW REPORTED ENVIRONMENTAL EFFECTS

Plants

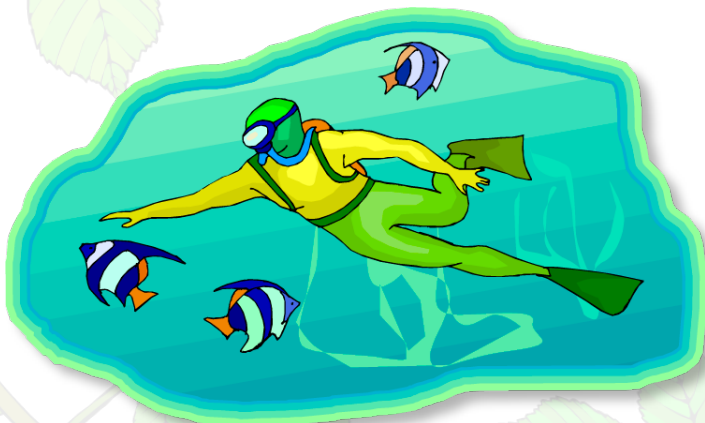
Treetop browning, root damage
Pollination decreases
Changes in germination timing
Ion movement changes
Enzyme changes

Animals

Migration and navigation disruption
Habitat abandonment
Behavior and mood changes
Interaction with tissue magnetite
Free radical damage, tissue changes
Genetic function/structure changes
Fertility and development changes
Tower strikes by birds

Combined

Destabilization of biofilms
Cascade of biodiversity loss
Interactions of EMF and pollution



ANIMALS SENSE EMF

SEE MAP [LIVING ANTENNAS](#)

INDEX OF ALL MAPS
★ [RELATED TO EMF AND THE ENVIRONMENT \(PDF\)](#)

[IMPACT OF COMMUNICATION TOWERS ON WILDLIFE, BIRDS, BEES](#)

[NAVY'S EM WEAPONS WILL CAUSE INJURY TO LIVING BEINGS](#)

[GLOBAL WARMING](#)

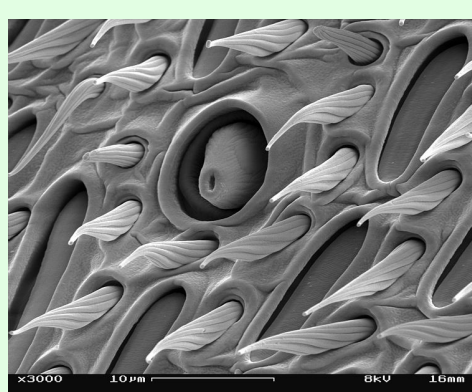
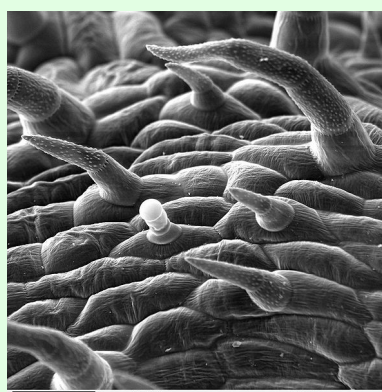
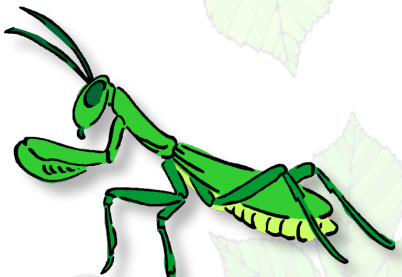


[Video: Saguaro cactus in city affected by faux cacti and other EMF](#)

[RESONANCE](#)

[MAGNETITE, CRYPTOCHROME, MELATONIN, BEES, BIRDS, EMF](#)

"...the loss of biodiversity is the only truly irreversible consequence of environmental degradation."
Stuart Pimm et al



Insect (left) and plant (right) "antennae", ideally shaped for tuning in to nature
Philip Callahan

PHILIP S. CALLAHAN BOOKS

[Tuning in to Nature](#)
[The Magnetic Life of Agriculture](#)

[IS ELECTROSMOG HURTING OUR WILDLIFE? 149 REFERENCES](#)

[ELECTROPATHIC STRESS IN ANIMALS AND MAN](#)



★ [MASSIVE ANIMAL STUDY: CANCER](#)

★ [MICROWAVE NEWS: NTP STUDY](#)

★ [NTP STUDY](#)

Articles

[Who Knew?](#)

[Calves' cataracts](#)

[RF, animal cancer](#)

[Animal health alert](#)

[Pest Busters, EMF](#)

[NIEHS study article](#)

[Birds, Bees, and Us](#)

[e-Sensors in animals](#)

[Sheep as WiFi routers](#)

[Wi-Fi in National Parks?](#)

[Wave-power, marine life](#)

[EMF and cancer in dogs](#)

[EMR in our environment](#)

[And what of the animals?](#)

[SM barn fire kills 12 horses](#)

[Endangering Nature's GPS](#)

[Can EMF shorten dog's life?](#)

[Stray voltage harms livestock](#)

[Last wild areas on earth at risk](#)

[What price your smartphone?](#)

[Physicians for the Environment](#)

[Sheep and reindeer as hotspots](#)

[Cell tower, fish die in classroom](#)

[Cell towers killing bees, birds, 1](#)

[Cell towers killing bees, birds, 2](#)

[Green Facts: Environment and EMF](#)

[Melatonin reduced in humans, animals](#)

[Panel to study EMF effect on birds, bees](#)

[Sense of smell and sight in ants perturbed](#)

[Stray voltage: guide for dairy farmers, vets](#)

[Possible HAARP connection with bee homing](#)

[Behavior of dairy herd near transmitting antenna](#)

ARTIFICIAL EMF AND THE ENVIRONMENT



Home: [Oscillatorium](#)
Newest version [this map](#)
Date of this update: 06-12-16

TRACKING DEVICES

[Endangering wildlife](#)

[Microchipping your dog, cat](#)

[Animal wearable devices popular](#)

[Chip implants linked to animal tumors](#)

[Chipped pets develop fast growing tumors](#)



[BIRDS, BEES AND THE DESTRUCTION OF NATURE](#)

[EMR AND ANIMALS](#)

EMF Studies

[Rats, male infertility](#)

[Rabbits, fertility rate](#)

[Bats averse to radar](#)

[Mice, testicle damage](#)

[Earthworm, genotoxic](#)

[Rats, behavior changes](#)

[MW, ciliary function, rats](#)

[Mouse \(transgenic\), ALS](#)

[Swine, fertilization outcome](#)

[Tree frog tadpoles, mortality](#)

[Rats, brain oxidative effects](#)

[Rats, autoimmune disorders](#)

[H. pylori, destabilizes biofilm](#)

[Wildlife, phone mast effects](#)

[Mice, memory problems, ELF](#)

[Ant colony deterioration, EMF](#)

[Mice, spatial memory affected](#)

[Rats, stress, psychopathology](#)

[Worms, fertility, mobile phones](#)

[EF, adverse effects on fruit flies](#)

[Tadpoles, metamorphosis delay](#)

[Rat, estrogen receptor changes](#)

[Grain beetle, behavior changes](#)

[RF fields, emerging wildlife threat](#)

[Rats, expression of mRNA altered](#)

[ELF, adverse effects rainbow trout](#)

[Ants food memory disruption RF/MW](#)

[Mouse, macrophage RedOx changes](#)

[ELF, developmental toxicity, zebrafish](#)

[Chicken, embryo membrane disruption](#)

[Collection of published studies on birds](#)

[Rats, circadian rhythms, blood changes](#)

★ [Monitoring ground current, dairy farm](#)

[Cockroach, disrupted magnetoreception](#)

[RF emerging threat to wildlife orientation](#)

[EMF, base stations, redox proteins, cows](#)

[Ants association with food, sites, inhibited](#)

[Rats, growth, pubertal development effects](#)

[Electric fields, adverse effects, wheat aphids](#)

[Power quality and dairy herd milk production](#)

[Earthworms, oxidation, DNA damage, MW/RF](#)

[5 species, problems due to non-linearity, more](#)

[Monarch butterfly migrates via magnetic compass](#)

[Radiotelemetry may introduce negative RF effects](#)

[Tree frog tadpoles, mobile phones, city as laboratory](#)

[Anthropogenic EM noise disrupts migratory compass](#)

[Tragedy of Commons, High Tech Risk of Wireless World](#)



[EM, Volkrodt](#)

[New "Poison"](#)

[The Dying Forest](#)

[Microwaves and Wildlife](#)

[Microwaving Our Planet](#)

[Impact of towers, wildlife](#)

[Impact of towers, avians](#)

★ [Military and Marine Life](#)

[Electronic Silent Spring Book](#)
[Katie Singer: Ecosystem](#)

[EMF and Nature: h.e.s.e. project](#)

[How do animals see power lines?](#)

[EMF, cancer, massive animal study](#)

[Disappearing Bees and EMF timeline](#)

[Massive destruction of nature by EMF](#)

[A. Firstenberg: Silent Wireless Spring](#)

[Pulsed MW, fish kills, manatee deaths](#)

★ [Ground current affects people, cows](#)

[Blake Levitt: Enviro. effects of cell towers](#)

[Webinar: Effect of EMF on Marine Animals](#)

★ [Quality of electrical power, quality of milk](#)

★ [U.S. Fish & Wildlife: Towers, birds, wildlife](#)